

ABSTRACT OF THE DISCLOSURE

A projection apparatus (18) forms an image frame (22) on a display surface (12), where the image frame (22) is a two-dimensional array of pixels. The projection apparatus (18) has a laser (40) light source, an image modulator 5 (42) for forming an image-bearing beam according to scanned line data, and projection optics (44) for projecting the image-bearing beam toward the display surface (12). A camera (20) obtains a sensed pixel array by sensing the two-dimensional array of pixels from the display surface (12). A control logic processor (28) compares the sensed pixel array with corresponding image data to 10 identify any portion of the image-bearing beam that is obstructed from the display surface (12) and to disable obstructed portions of the image-bearing beam for at least one subsequent image frame (22).